

A Flow Chart for Array-based Detection of Gene Expression

Hybridization Oligo: 3' 5'

U: Upstream universal priming site
 Zip: Unique sequence as a molecular "zip-code"
 EX: Gene-specific exon sequence
 D: Downstream universal priming site

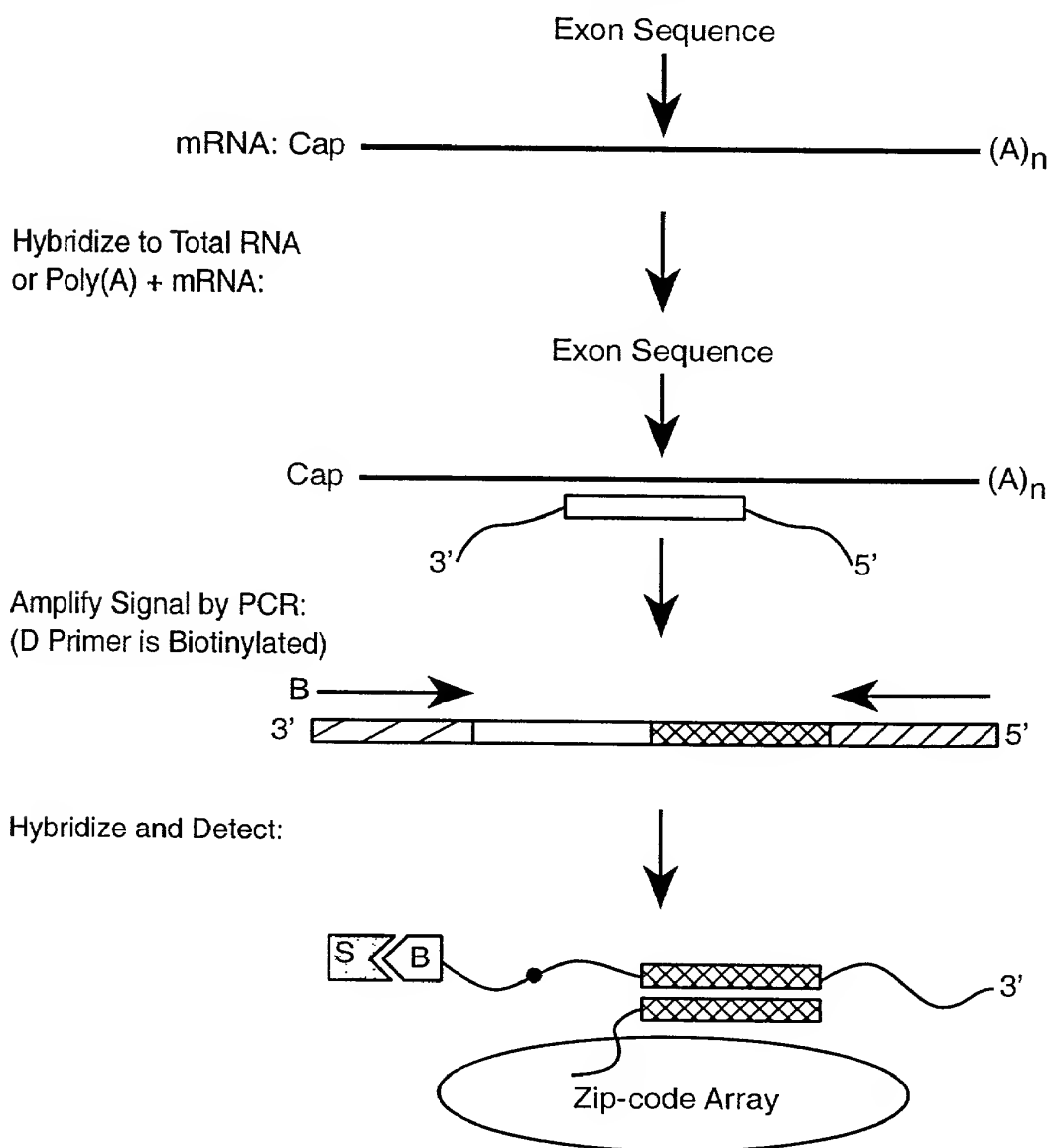
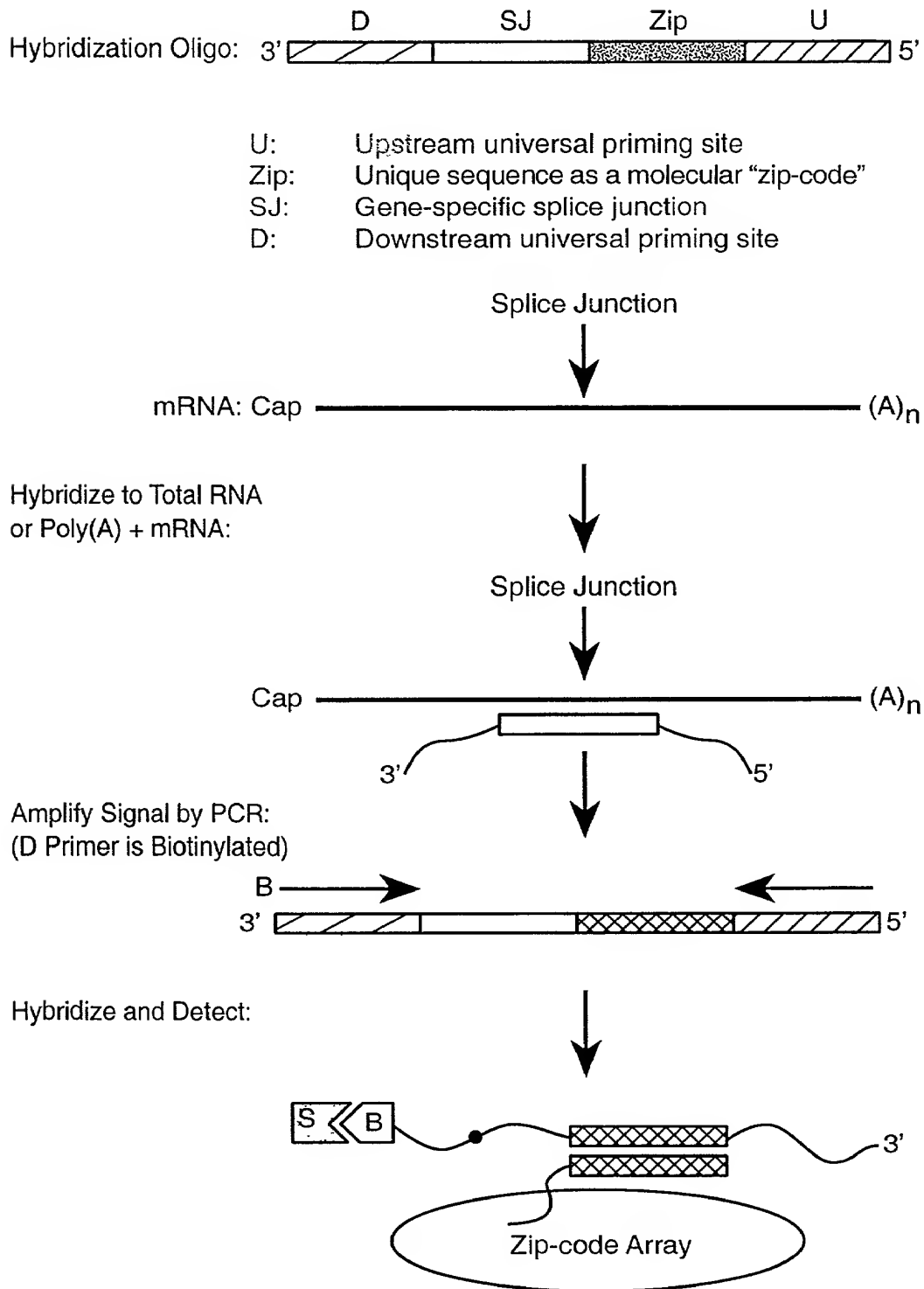


FIG._1

A Flow Chart for Array-based Detection of RNA Alternative Splicing


FIG._2

Genome-wide Gene Expression Profiling Using Oligo-ligation Strategy

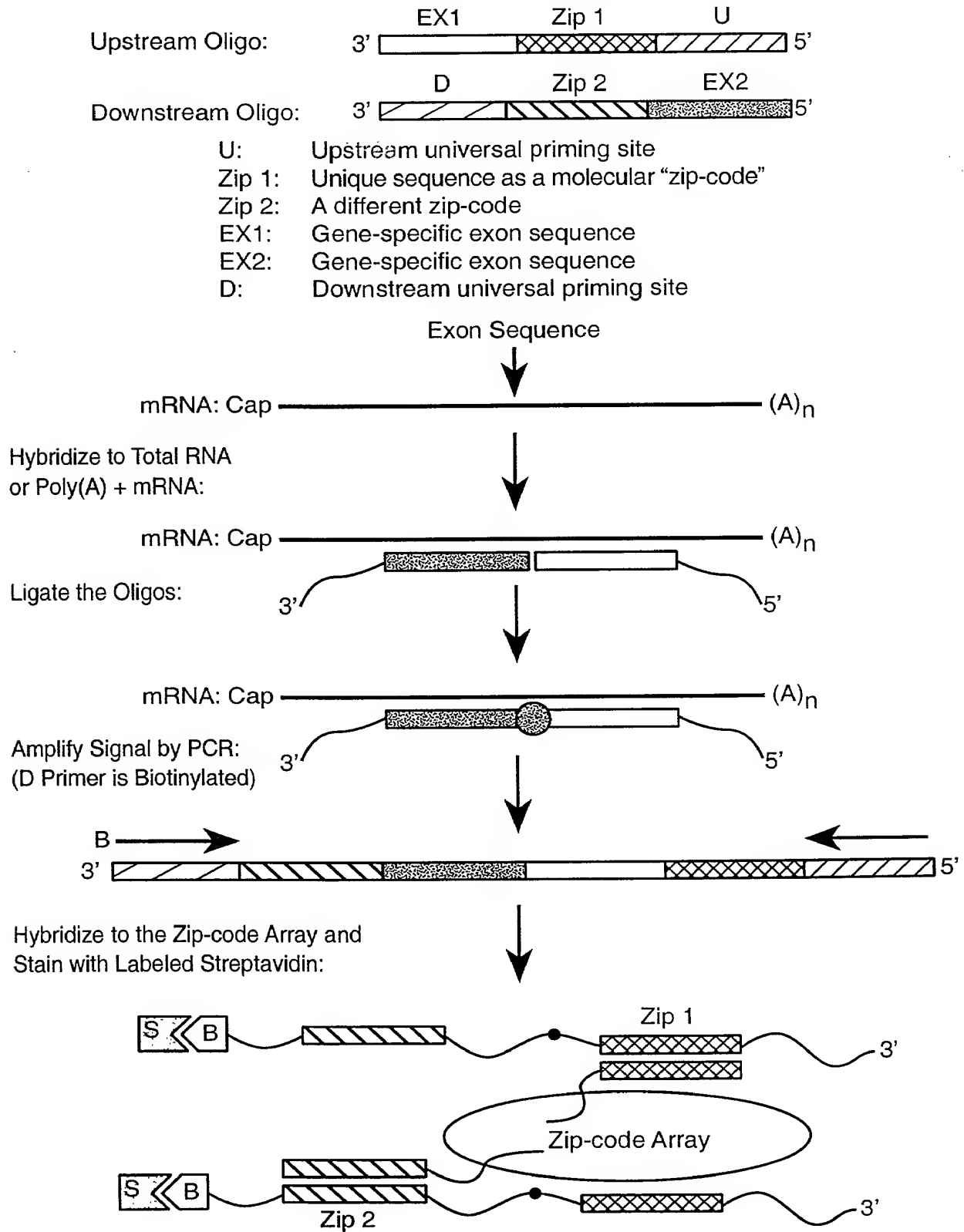


FIG. 3

Genome-wide RNA Alternative Splicing Monitoring Using Oligo-Ligation Strategy

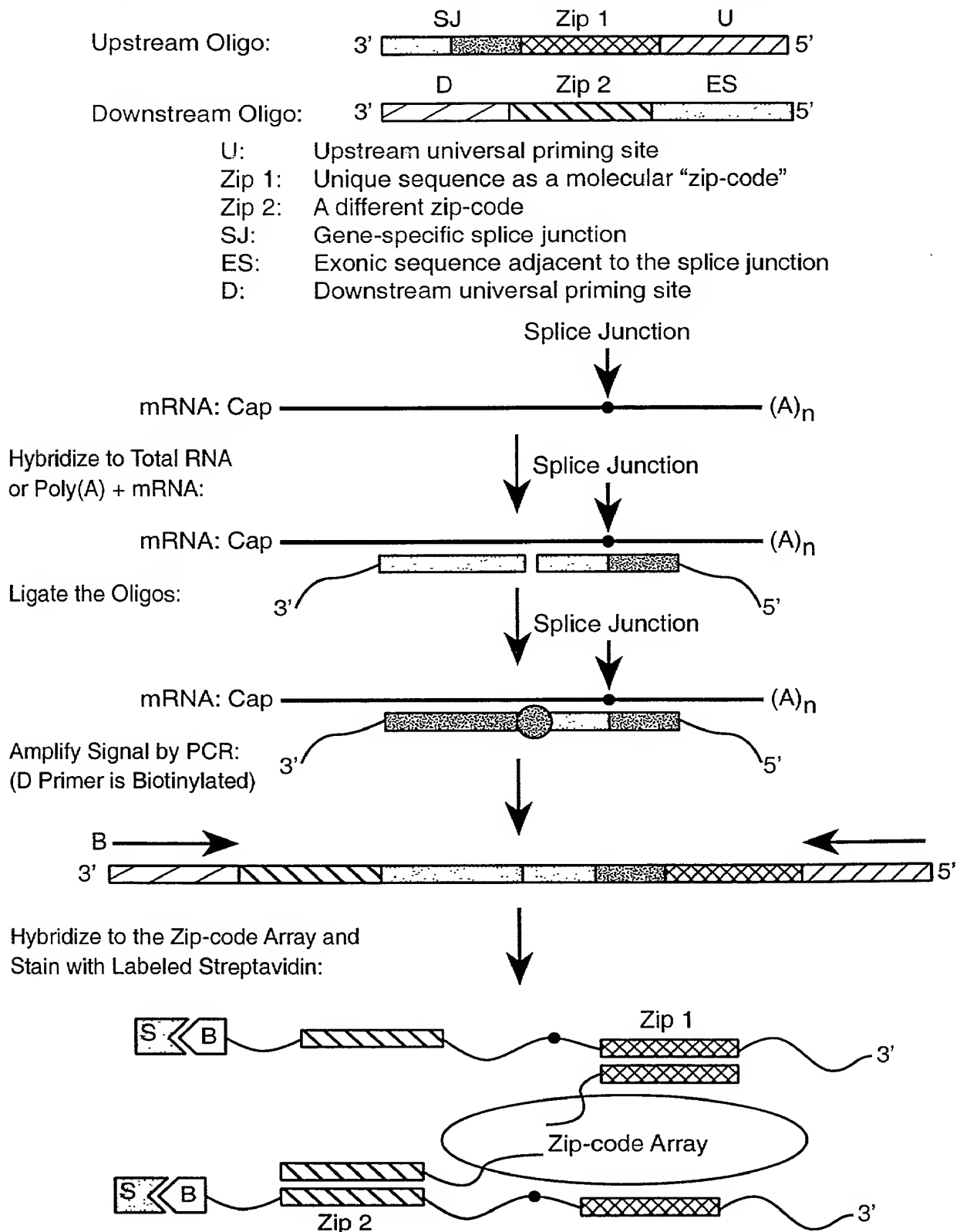


FIG. 4

Direct Genotyping Using a Whole-genome Oligo-ligation Strategy

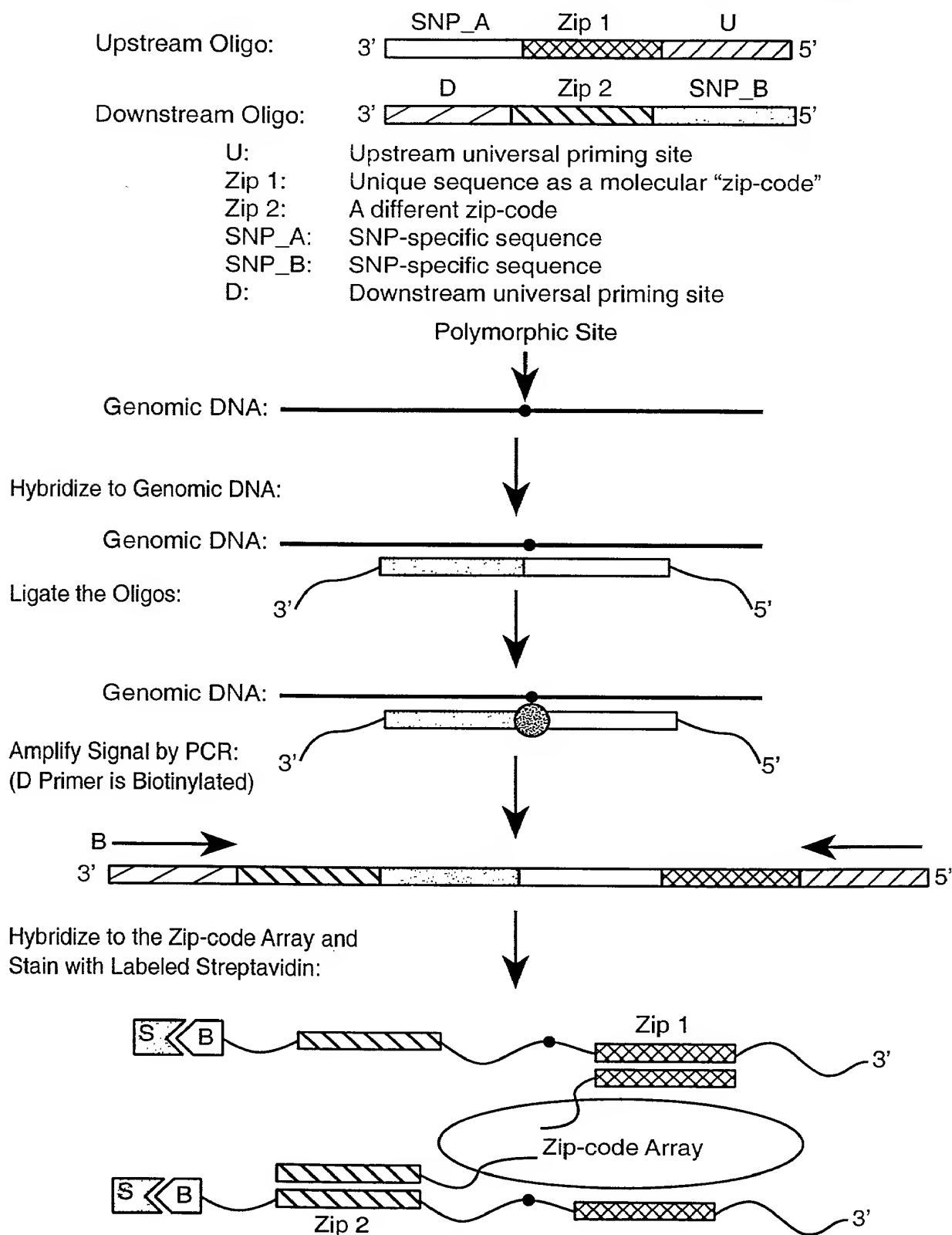
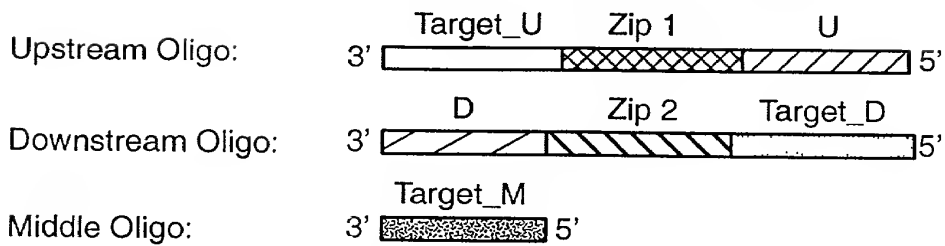


FIG._5

Whole-genome Oligo-ligation Strategy



U: Upstream universal priming site
 Zip 1: Unique sequence as a molecular "zip-code"
 Zip 2: A different zip-code
 Target_U: Upstream target-specific sequence
 Target_D: Downstream target-specific sequence
 Target_M: Middle target-specific sequence
 D: Downstream universal priming site

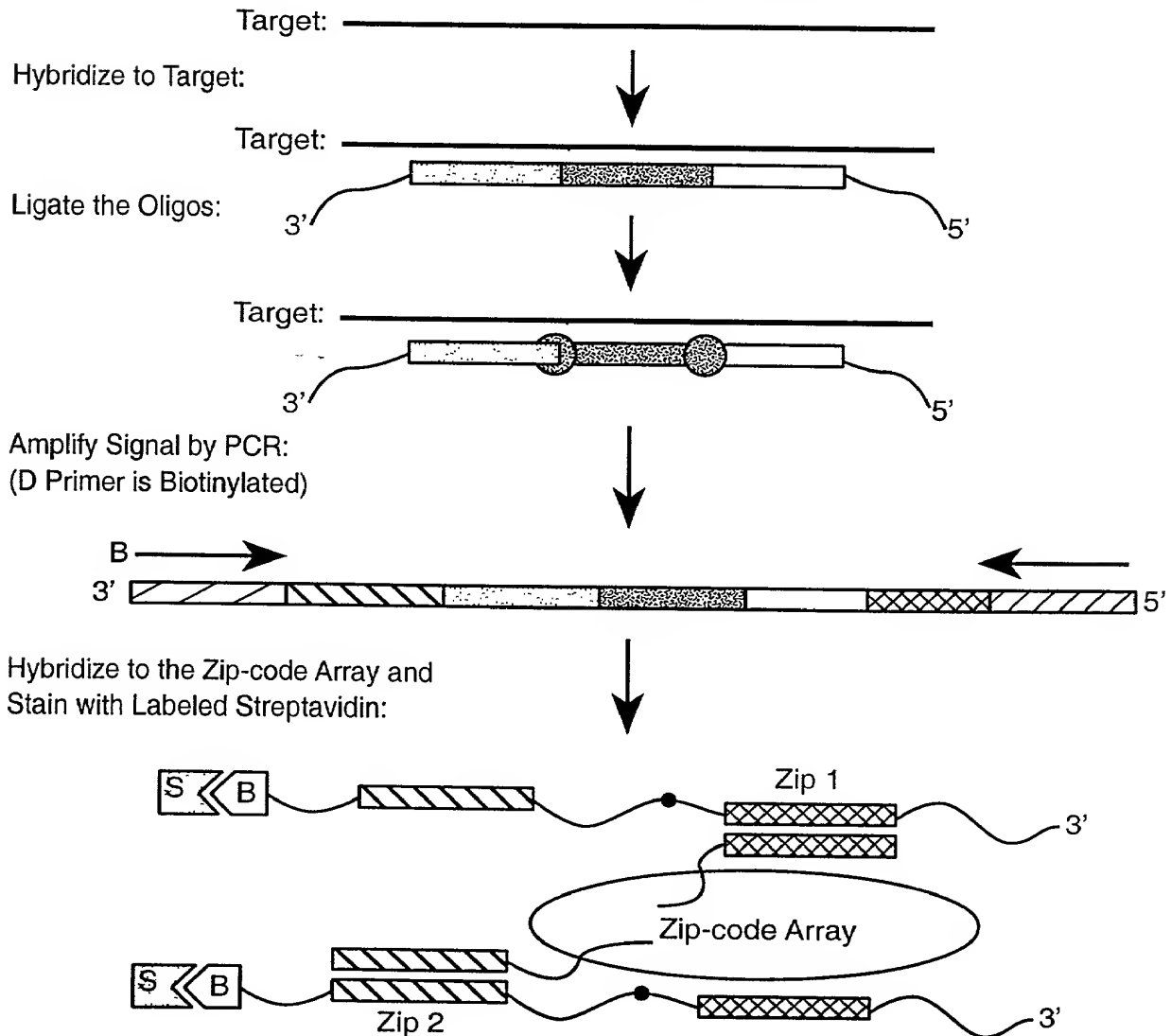
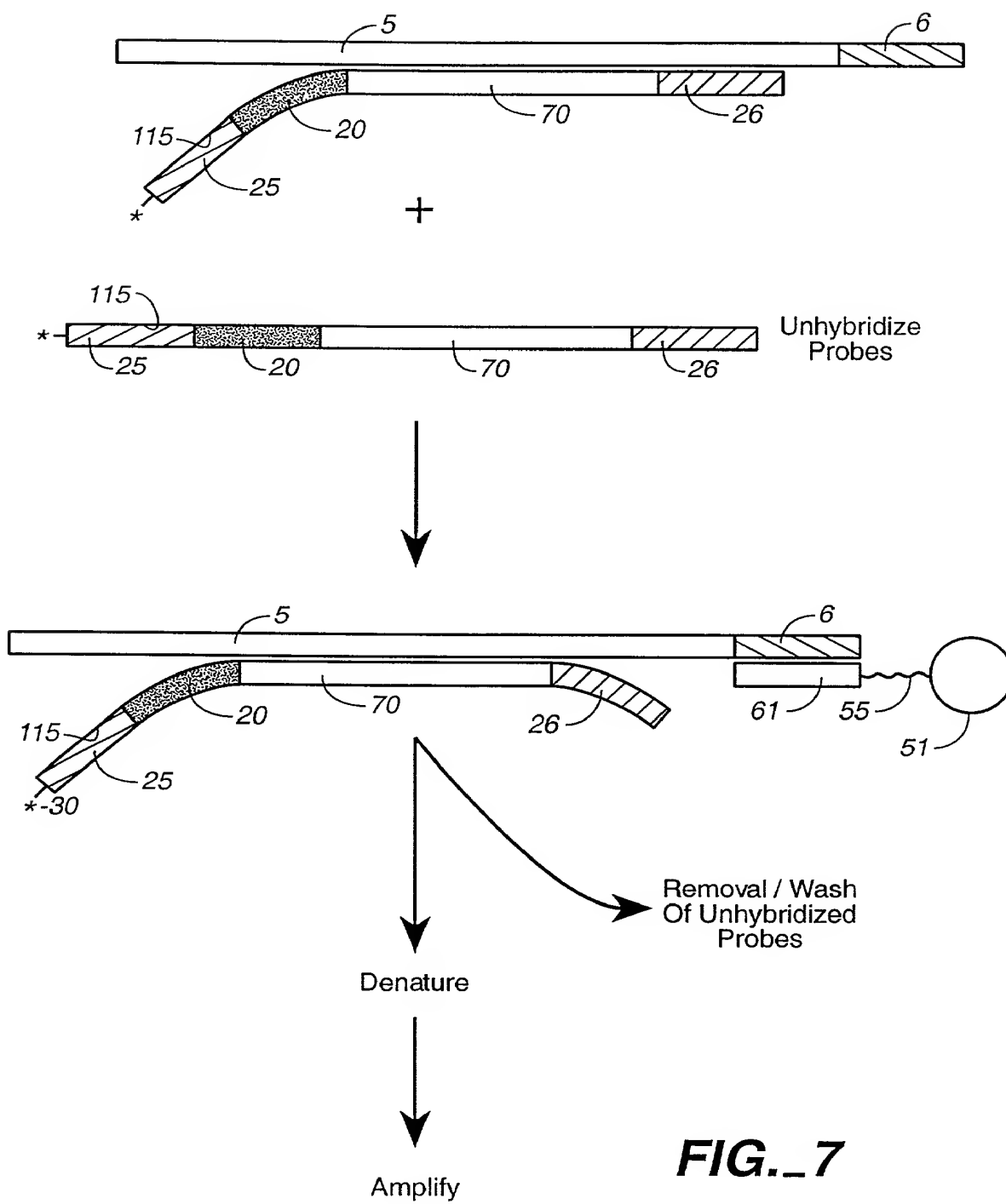
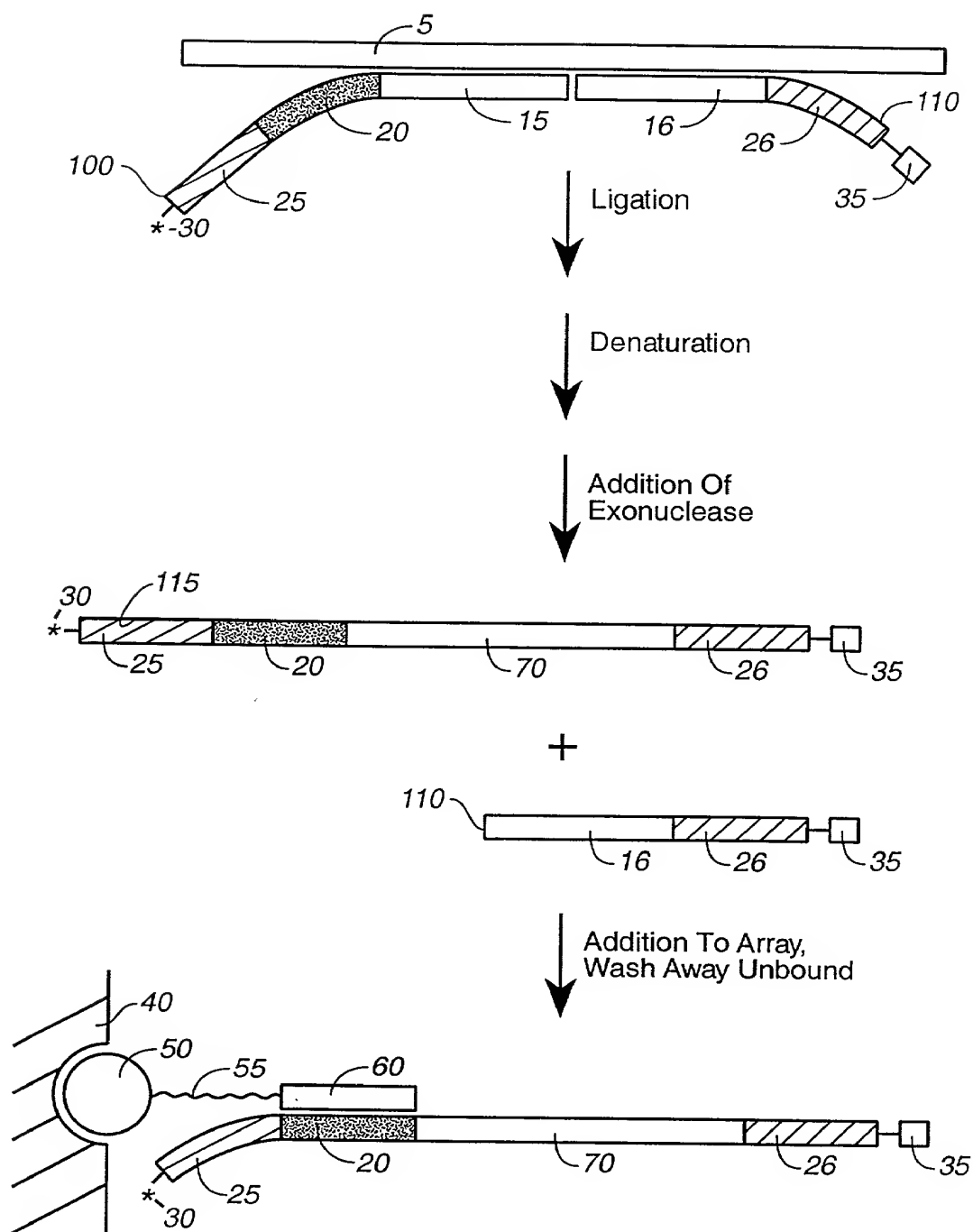


FIG._6



**FIG. 8**

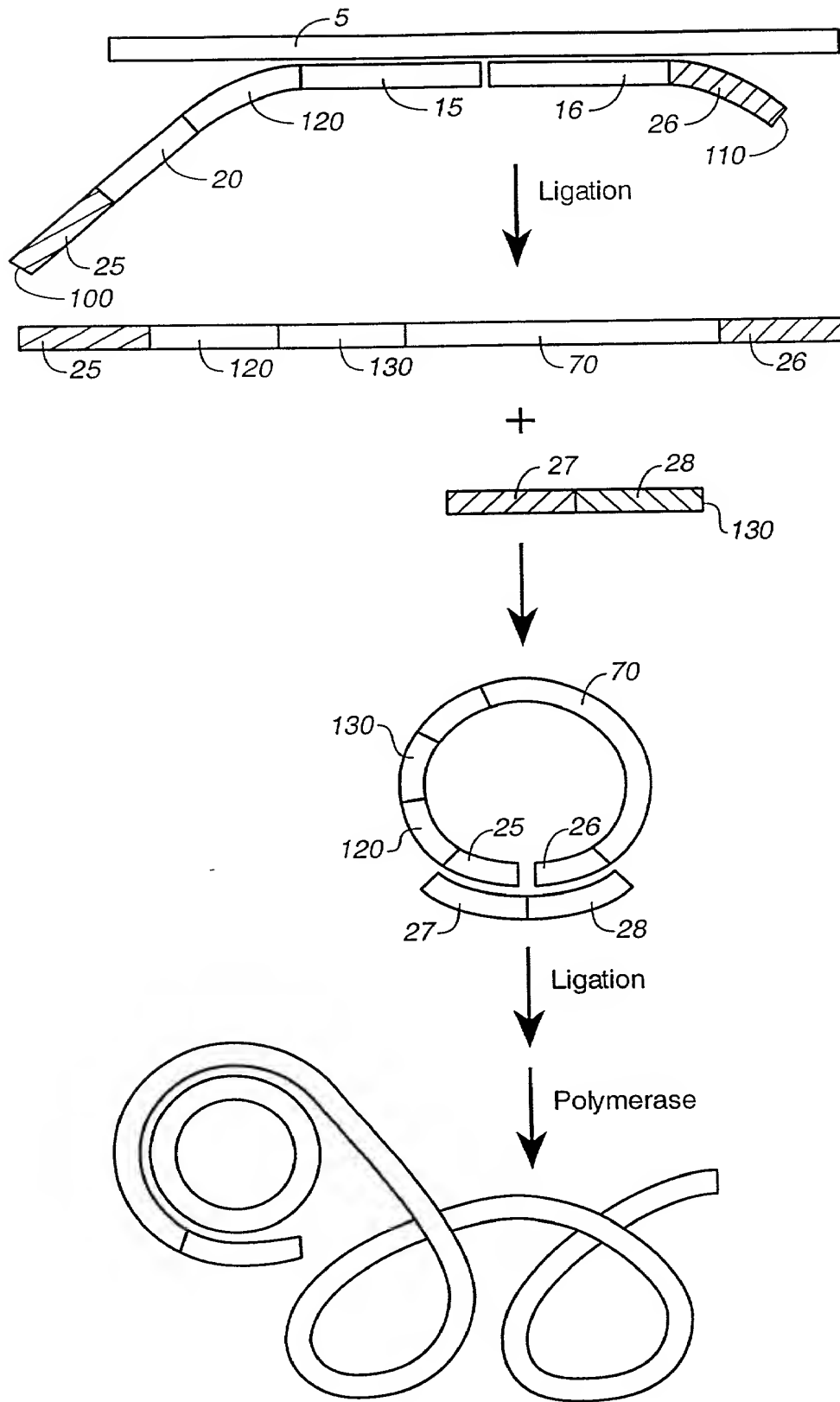


FIG. 9

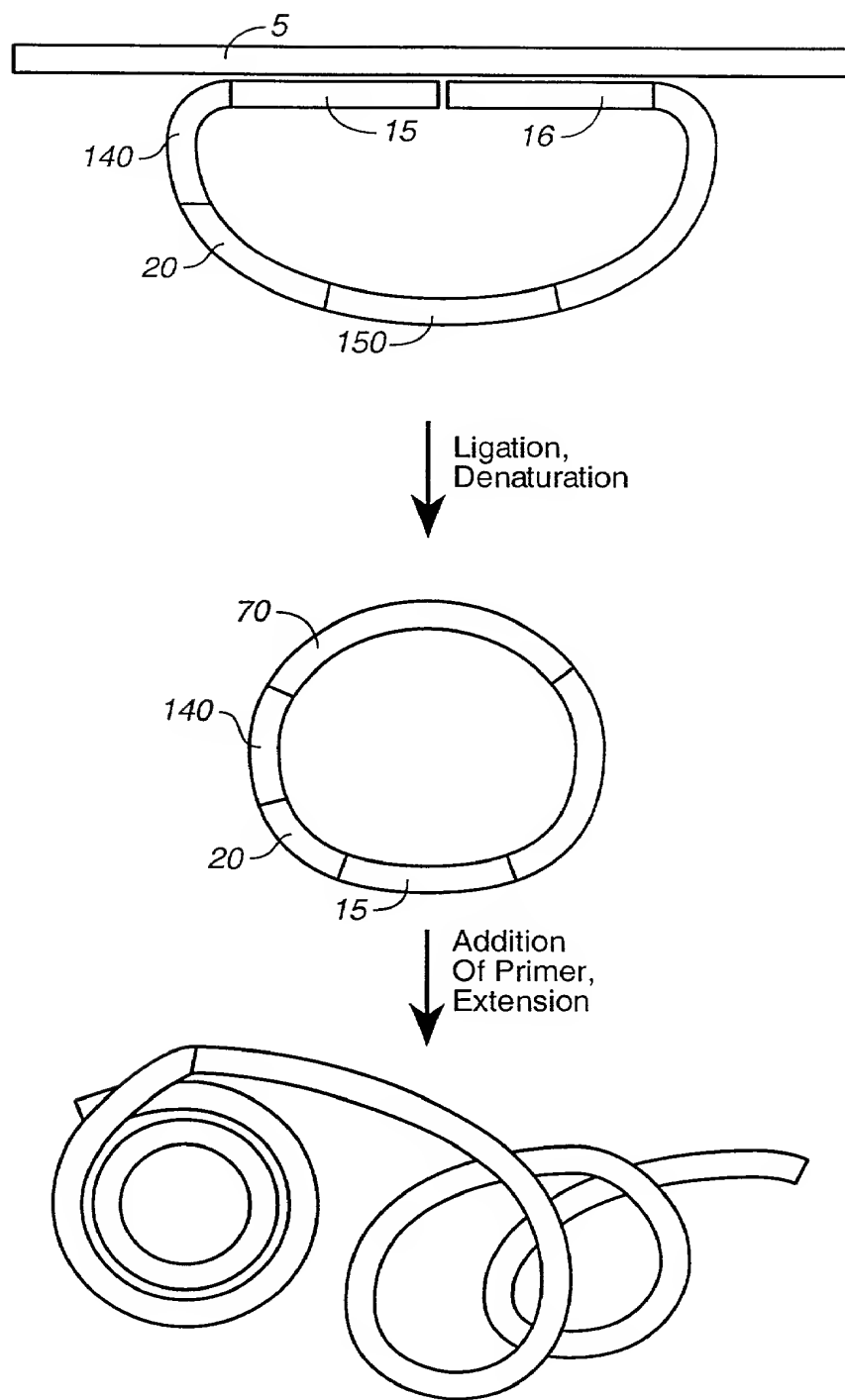
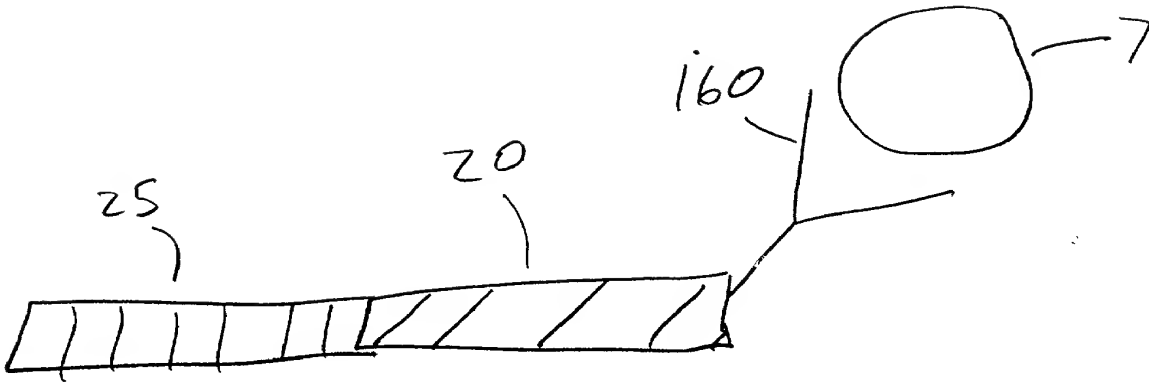
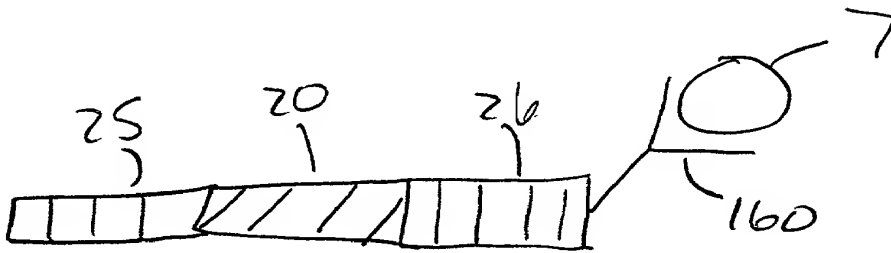


FIG. 10

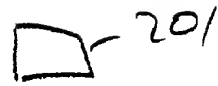
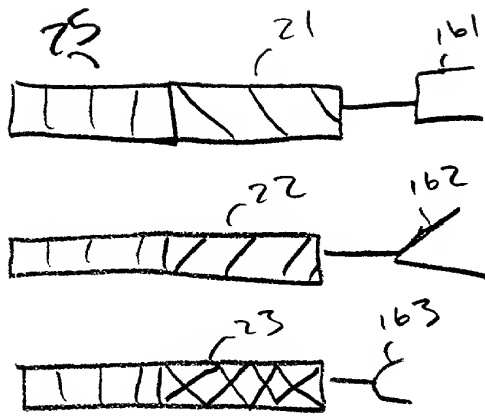


A

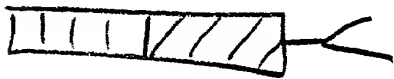
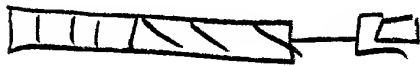


B

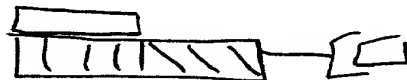
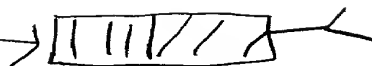
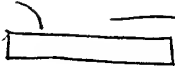
Figure 11



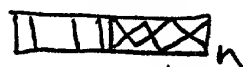
0-202



210



↓ Amplify



↓ Detect

Figure 12